



	Autumn1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12 Teacher 1	Unit: Module 2 Foundations in Chemistry (2.1 atoms and reactions)		Unit: Module 4 Core organic Chemistry (4.1 basic concepts)		Unit: Module 4 Core organic Chemistry (4.2 Alcohols, haloalkanes and analysis)	Unit: PAG catch up and Revision
	Wk 1: ATOMS	Wk 7: ACIDS & BASES	Wk 1: naming organic compounds	Wk 1: alkenes	Wk 1: alcohols	Wk 1: Aspirin prac
	Wk 2: MOLES	Wk 8: pH	Wk 2: organic compounds and formulae	Wk 2: reactions of alkenes	Wk 2: oxidation of alcohols	Wk 2: Aspirin prac
	Wk 3: FORMULAE	Wk 9: SALTS	Wk 3: Skeletal formulae and isomerism	Wk 3: electrophilic addition to alkenes	Wk 3: IR spectroscopy	Wk 3: Y13 Benzene
	Wk 4: SOLUTIONS	Wk 10: WATER OF CRYSTALLISATION	Wk 4: Reaction mechanisms	Wk 4: addition polymerisation	Wk 4: Mass spec fragmentation	Wk 4: Y13 Benzene
	Wk 5: GASES	Wk 11: TITRATIONS	Wk 5: alkanes	Wk 5: desling with polymer waste	Wk 5: Combined techniques	Wk 5: Y13 Benzene
	Wk 6: YIELD & ATOM ECONOMY	Wk 12: TITRATIONS Wk 13: OXIDATION NUMBERS	Wk 6: reactions of alkanes		Wk 6:	Wk 6:
Final Assessment:	TEST 1 (1st ½ term) TEST 2 (2 nd half term) PAG 1.1-1.3 PAG 2.1-2.3		TEST 1 (1st ½ term) TEST 2 (2 nd half term) TRIAL EXAM		AS PAPERS TRIAL EXAMS PAG 5.3	PAG 6.1 Aspirin

	Autumn1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12 Teacher 2	Unit: Module 2 foundations in Chemistry (2.2. Electrons, bonding and structure) Unit: Module 3 Periodic Table and Energy (3.1 Periodic table)			Unit: Module 3 Physical Chemistry (3.2 physical chemistry)	Unit: Module 4 Core organic Chemistry (4.2 Alcohols, haloalkanes and analysis)	Unit: PAG catch up and revision
	Wk 1: Electron structure Wk 2: Ionic bonding Wk 3: Covalent bonding Wk 4: Shapes of molecules Wk 5: e Electronegativity Wk 6: Intermolecular forces	Wk 7 Simple molecular properties: Wk 8: Giant covalent Wk 9: Giant metallic Wk 10: Periodic table Wk 11: Periodicity melt & boil Wk 12: Periodicity ionisation energy WK 13: Redox	Wk 1: Group 2 redox Wk 2: Group 2 compounds reactions Wk 3: Group 7 reactions Wk 4: Group 7 displacement Wk 5: Qualitative analysis Wk 6:	Wk 1: Enthalpy and reactions Wk 2: Hess' law Wk 3: Enthalpy cycles Wk 4: Calorimetry Wk 5: Rates of reaction Wk 6: Equilibrium	Wk 1: Haloalkanes Wk 2: Haloalkanes and the environment Wk 3: Synthetic routes Wk 4: combined techniques Wk 5: Practical skills Wk 6:	Wk 1:Asprin Prac Wk 2: Asprin prac Wk 3:Y13 Carbonyl chemistry Wk 4: Y13 Carbonyl chemistry Wk 5: Y13 Carbonyl chemistry Wk 6:
Final Assessment:	TEST 1 (1st ½ term) TEST 2 (2 nd half term)		TEST 1 PAG 4.1-4.3 Identifying unknowns	TEST 2 TRIAL EXAM PAG 3.1-3.3 Enthalpy	PAG 5.1 Haloalkanes	PAG 6.1 Aspirin

Curriculum Area: CHEMISTRY

	Autumn1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 13 Teacher 1	Unit: Module 6 organic chemistry and analysis (6.1/6.3 Aromatic compounds and analysis)		Unit: Module 5 Physical chemistry and transition elements (5.1 rates equilibrium and pH)		Unit: REVISION and PAG catch up	Unit:
	Wk 1: Aromatics	Wk 1: NMR	Wk 1: Orders and rates	Wk 1: Acid base equilibria		
	Wk 2: Friedel-Crafts	Wk 2: C-13 NMR analysis	Wk 2: Rate constants	Wk 2: pH		
	Wk 3: Phenols	Wk 3 H1 NMR	Wk 3: Rate determining steps	Wk 3: Weak acids and pH		
	Wk 4: Reactions of aromatics	Wk 4: NMR analysis	Wk 4: Equilibrium	Wk 4: Buffers		
	Wk 5: Mechanisms	Wk 5: Functional group tests	Wk 5: Kc and Kp	Wk 5: Neutralisation		
	Wk 6: Chromatography	Wk 6: Combined techniques	Wk 6: Acids and Bases	Wk 6: Titration curves		
Final Assessment:	TEST 1 (1st ½ term) TEST 2 (2 nd half term) PAG 7.1-7.3		TEST 1 PAG 9.1- 9.3	TEST 2 PAG 11.1-11.3		

	Autumn1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 13 Teacher 2	Unit: Module 6 organic chemistry and analysis (6.1/6.2 Carbonyls, acid derivatives and nitrogen compounds polymers and synthesis)		Unit: Module 5 Physical chemistry and transition elements (5.2 energy)	Unit: Module 5 Physical chemistry and transition elements (5.3 transition metals)	Unit: REVISION and PAG catch up	Unit:
	Wk 1: Carbonyls Wk 2: Esters Carboxylic acids Wk 3: acyl chlorides Wk 4: Amines Wk 5: Amino acids Wk 6: Amides	Wk 1: Chirality Wk 2: Condensation polymers Wk 3: Extending carbon chains Wk 4: Nitriles Wk 5: Aromatic substitution Wk 6: synthetic routes	Wk 1: Lattice enthalpy Wk 2: Born Haber cycles Wk 3: Entropy/ free energy Wk 4: Redox Wk 5: Redox titrations Wk 6: Electrode potentials	Wk 1: Transition metals Wk 2: Complex ions Wk 3: Ligand exchange Wk 4: Stereo-isomerism Wk 5: Redox Wk 6: Redox titrations		
Final Assessment:	TEST 1	TEST 2	PAG 8.1-8.3	PAG 12.1-12.3		

